

Fig.1

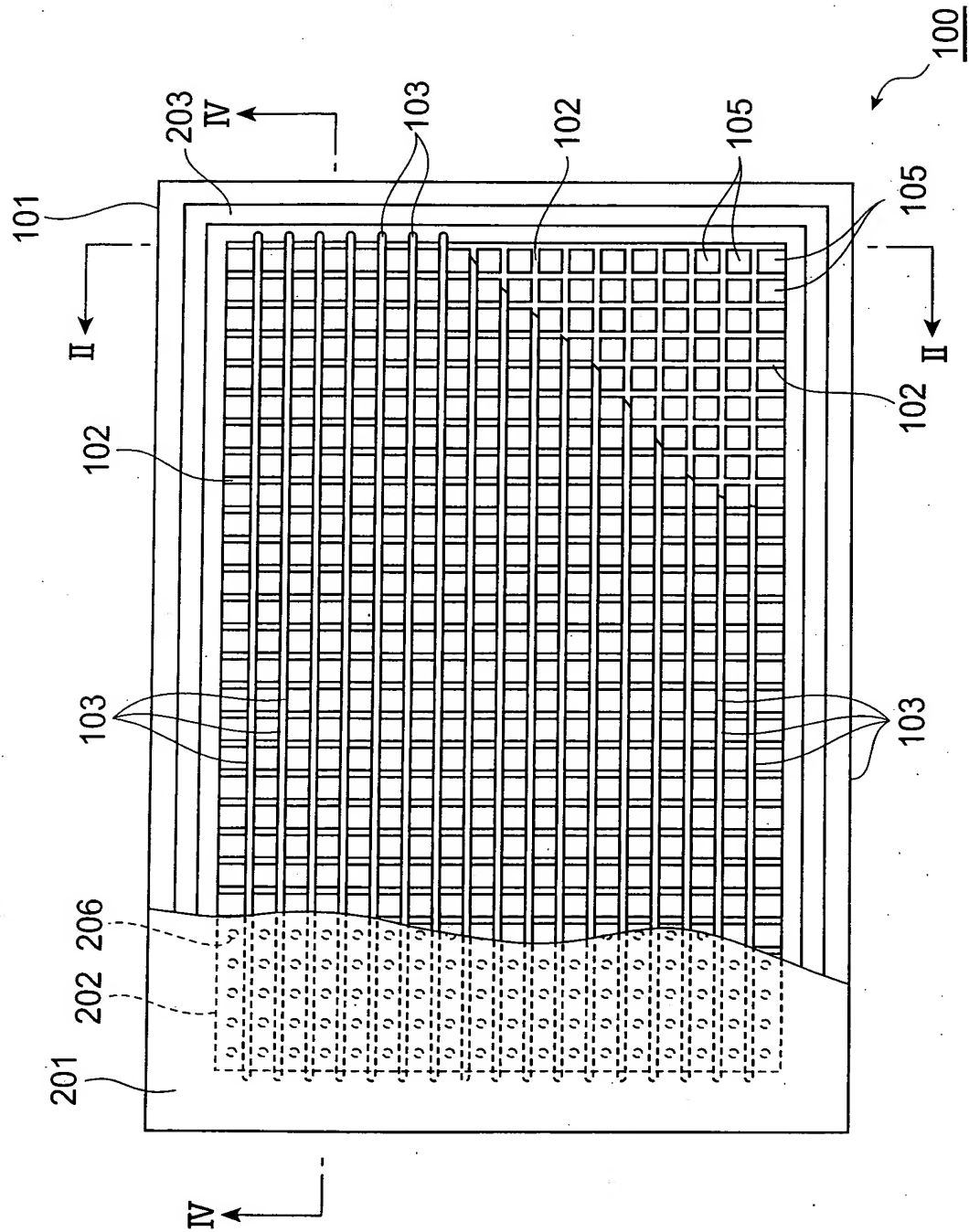


Fig.2

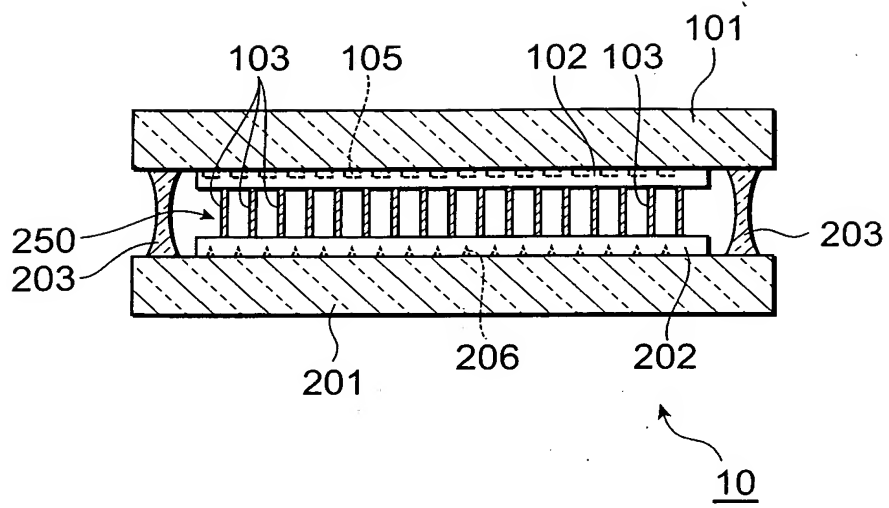


Fig.3

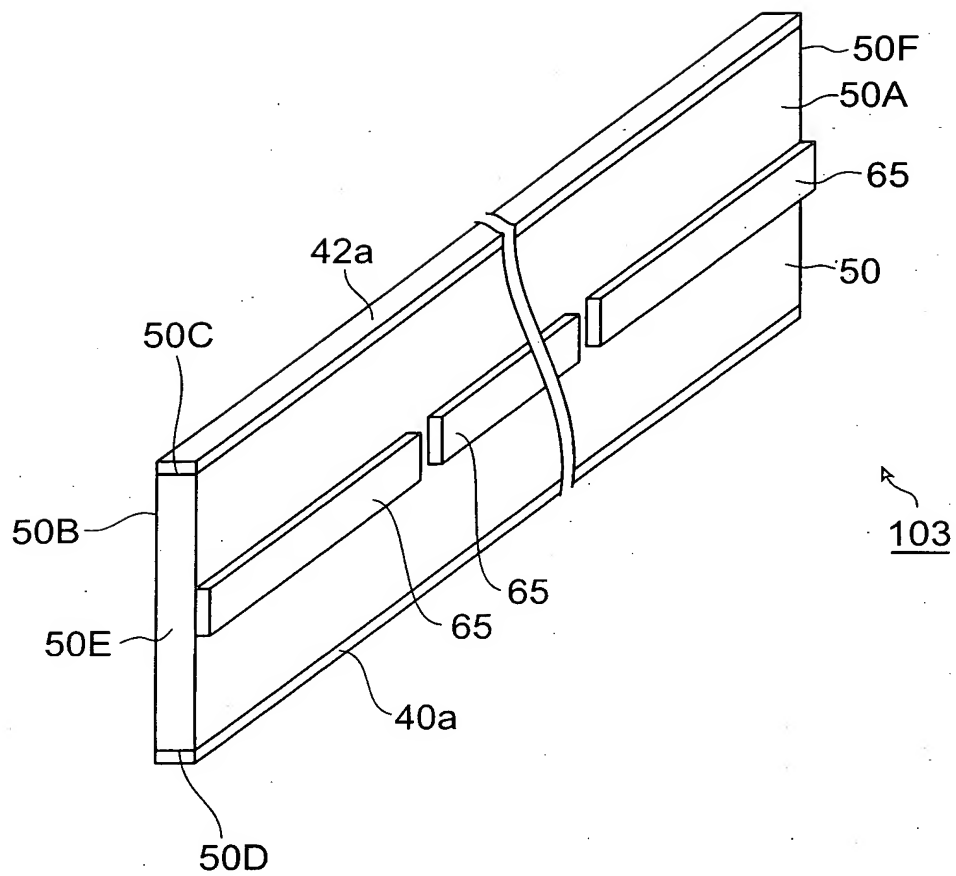


Fig.4

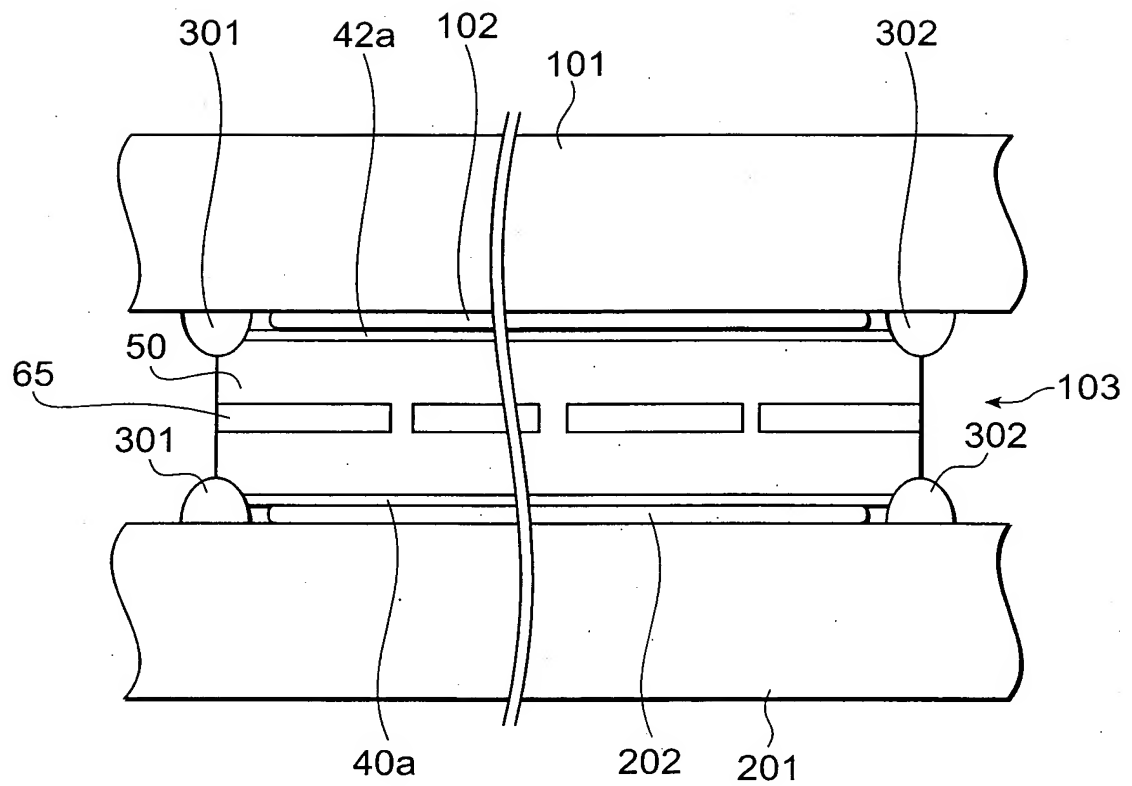


Fig.5

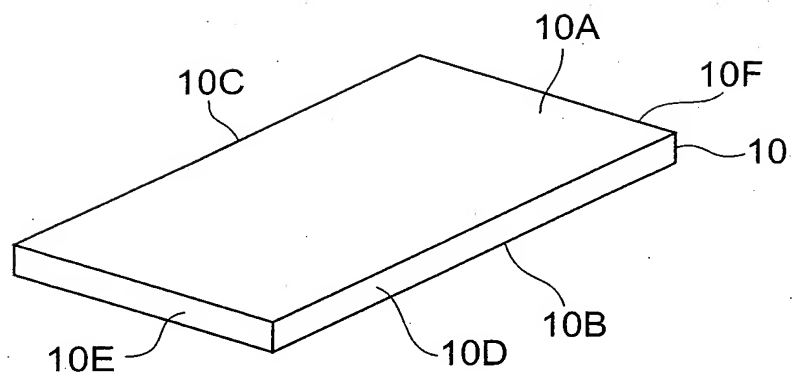
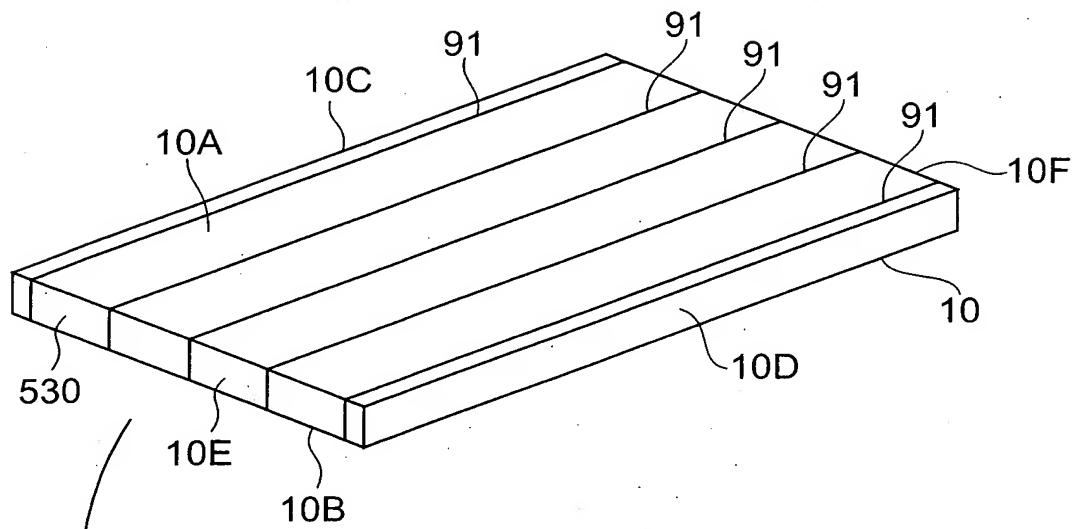


Fig.6

(a)



(b)

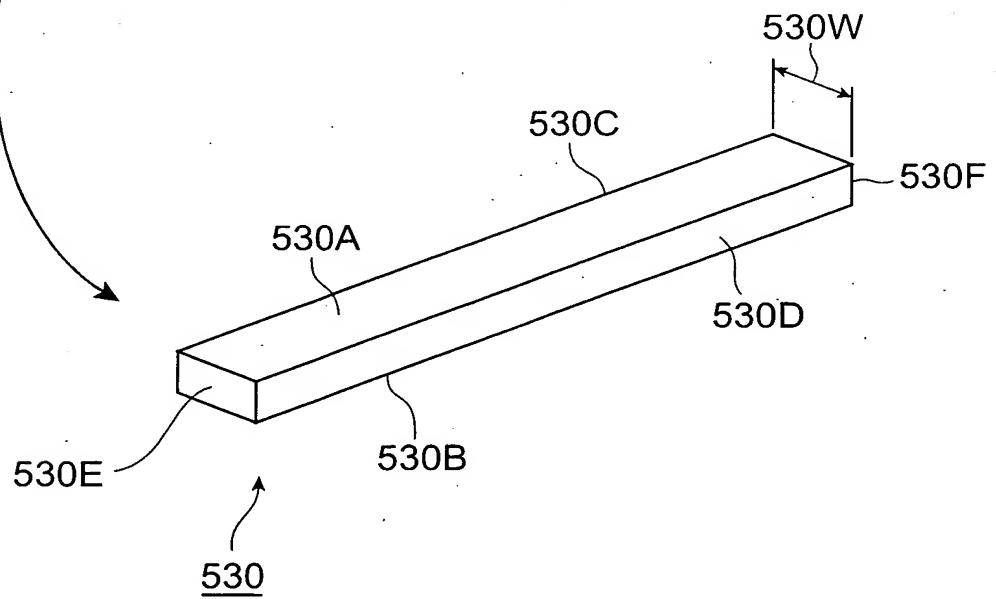


Fig.7

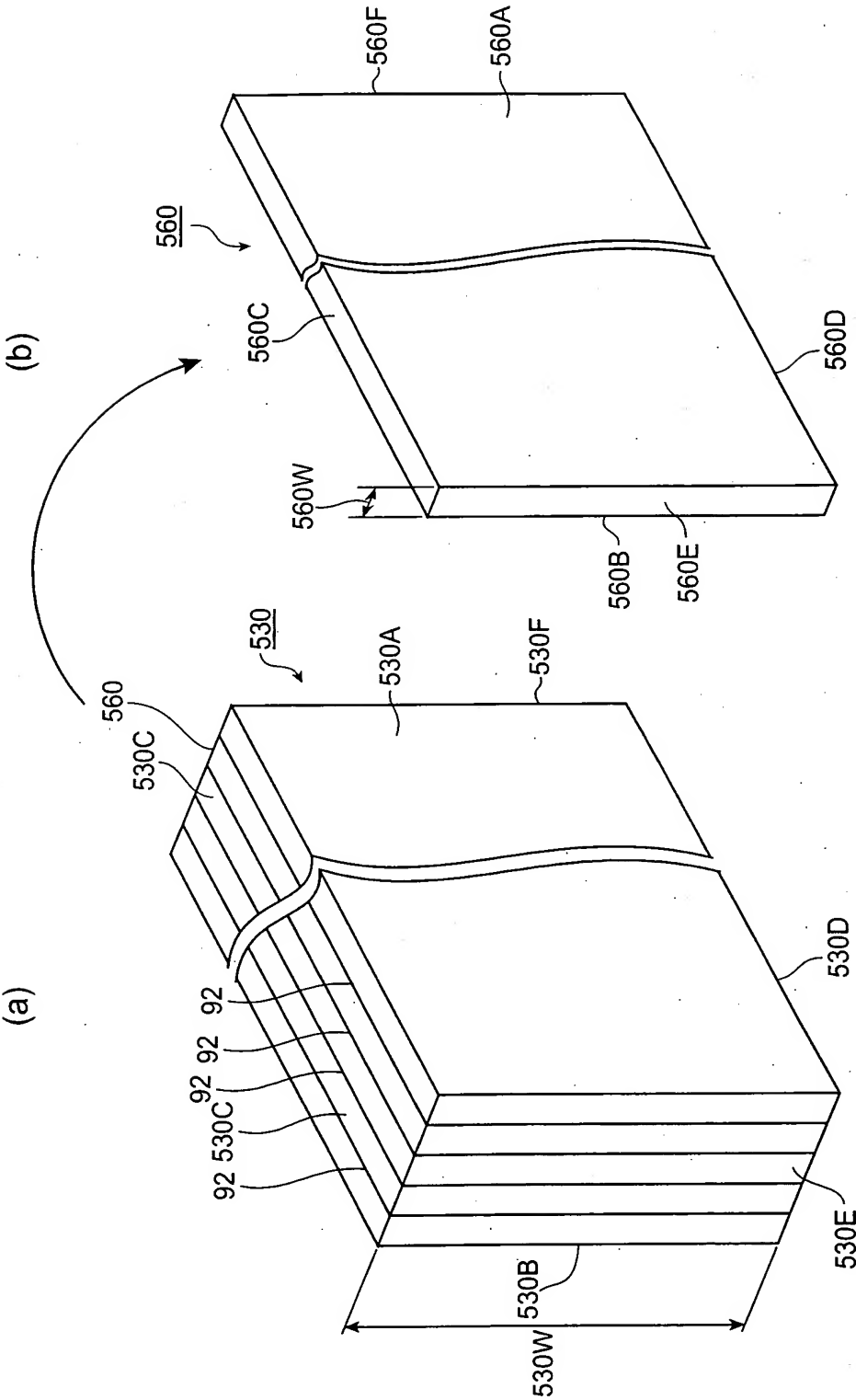


Fig.8

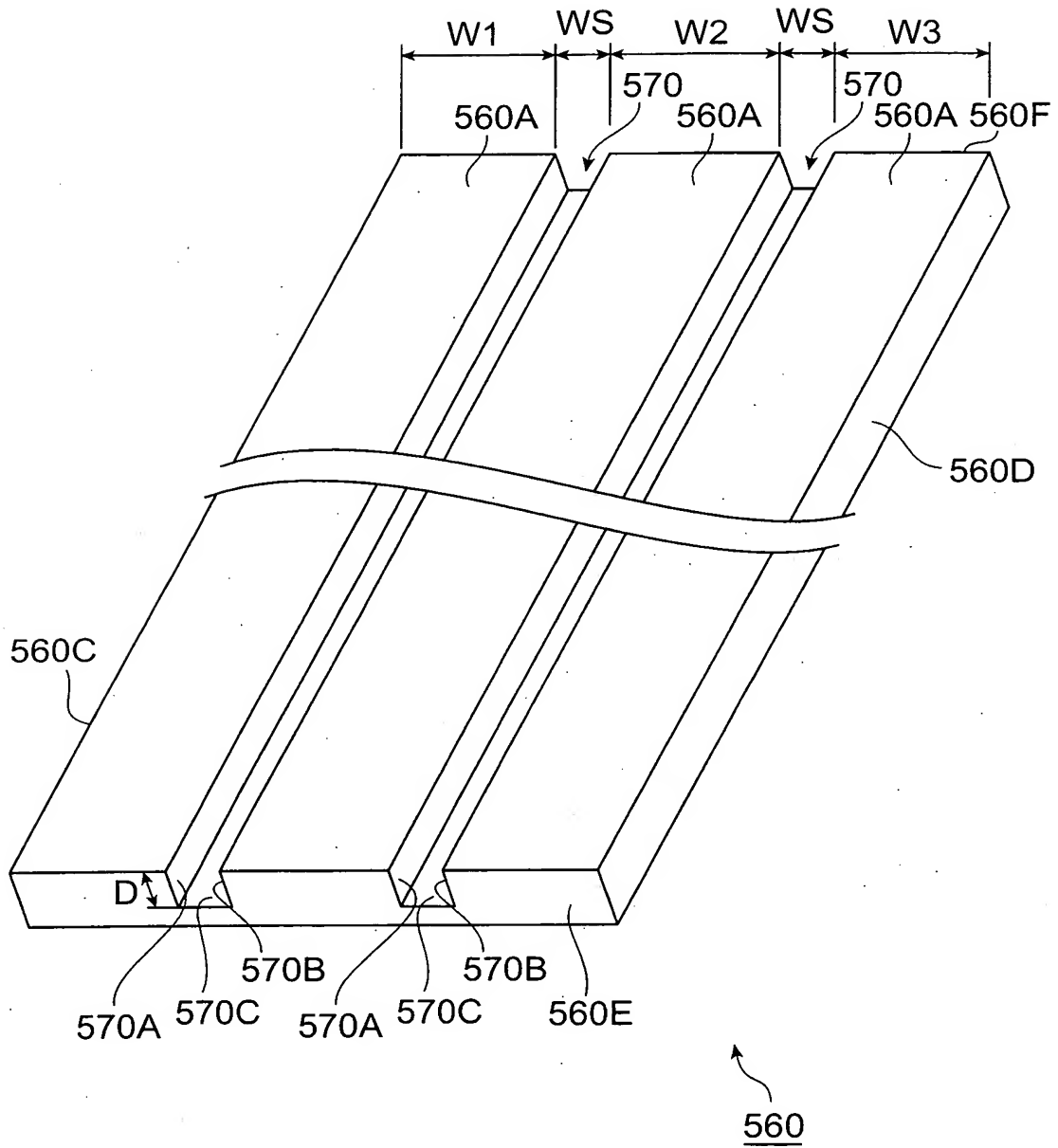


Fig. 9

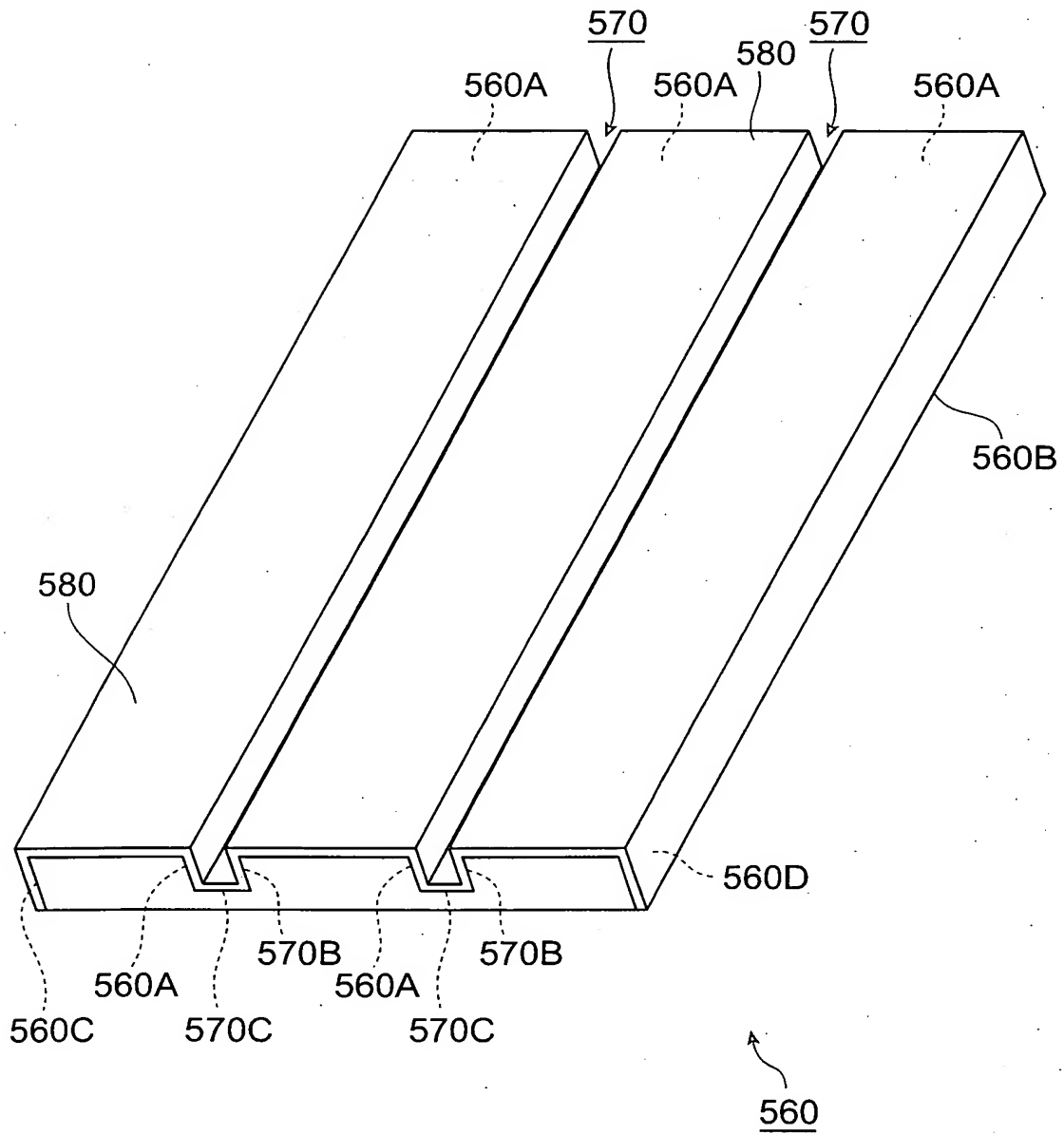


Fig.10

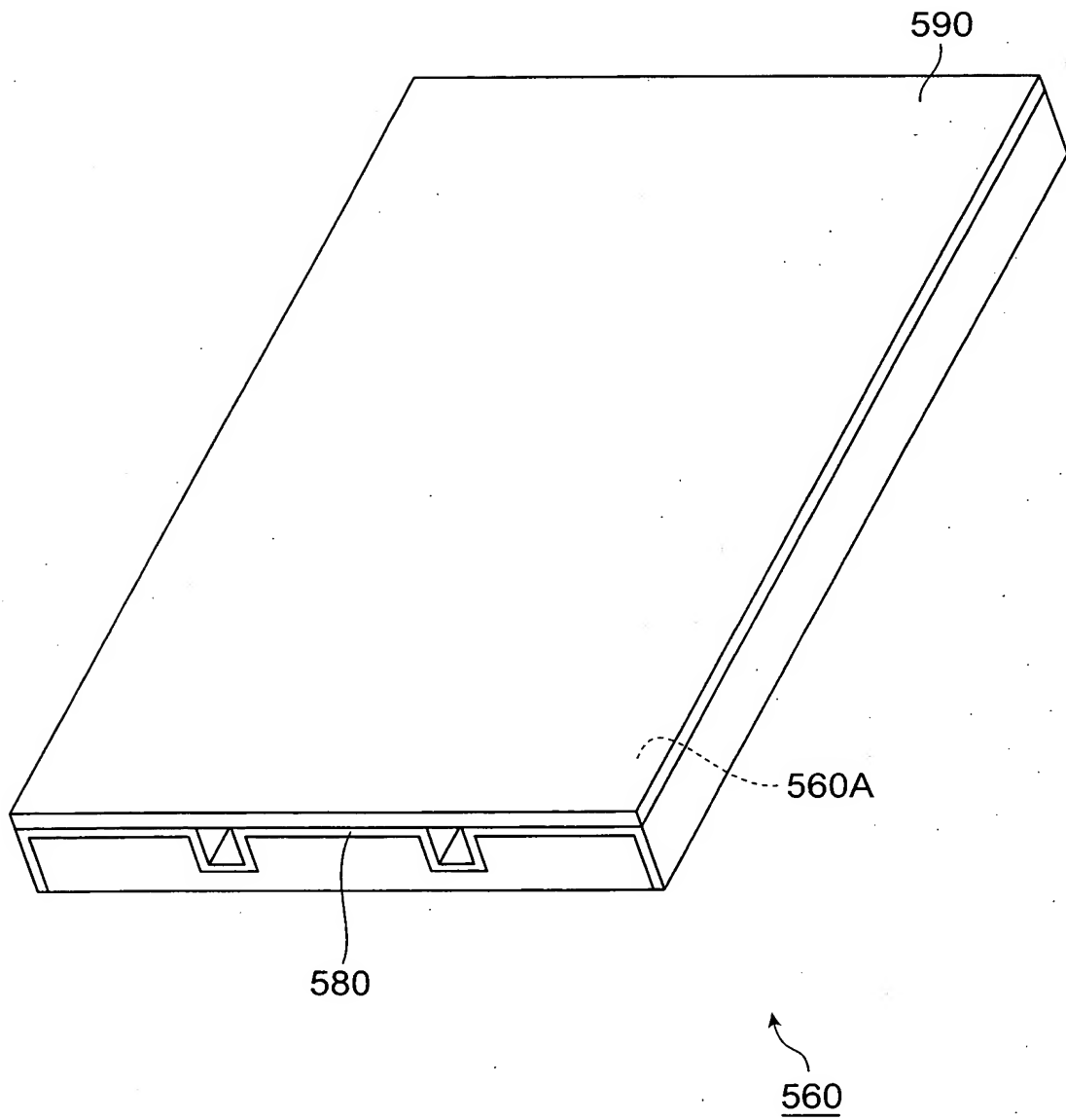


Fig. 11

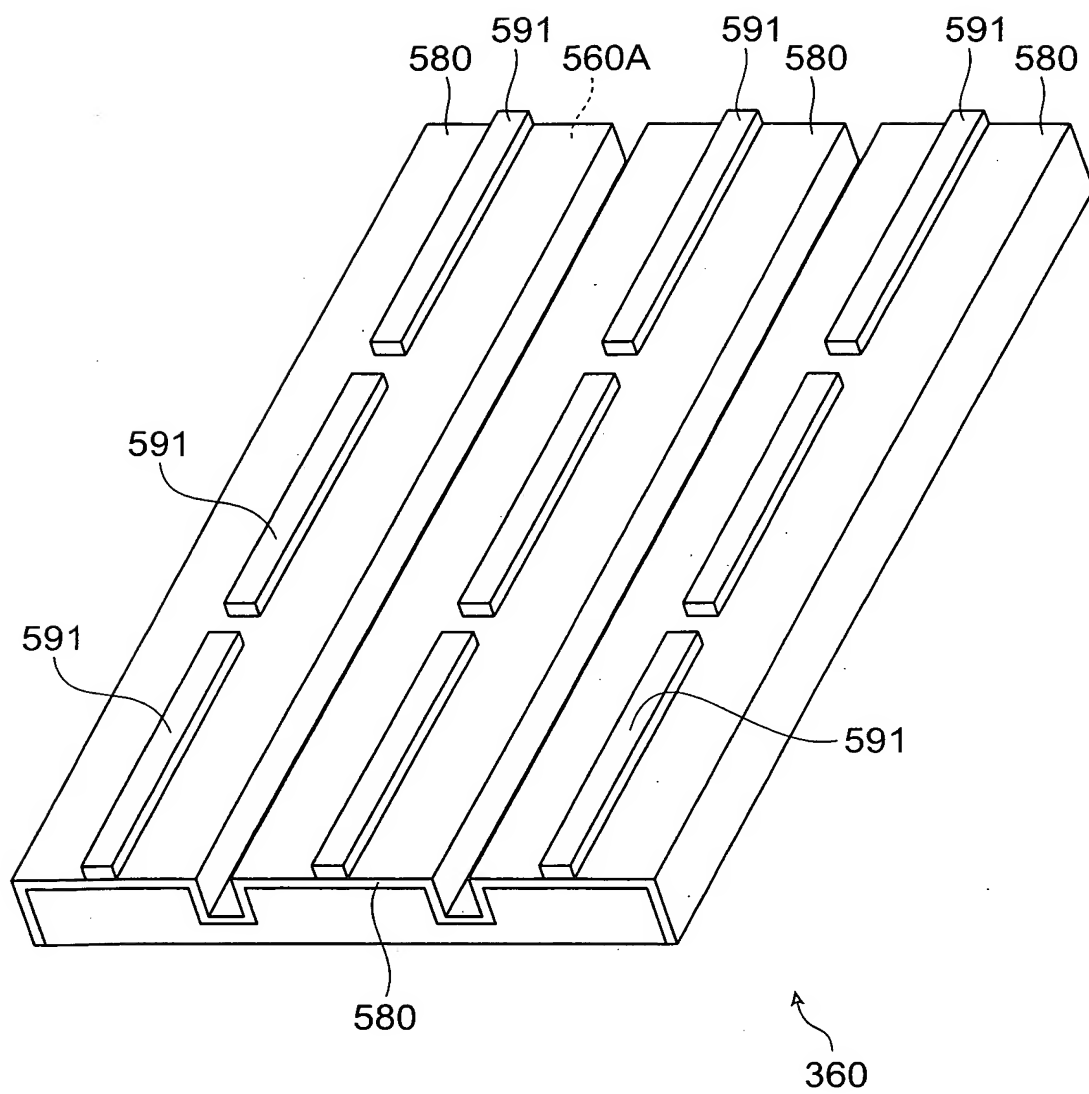


Fig.12

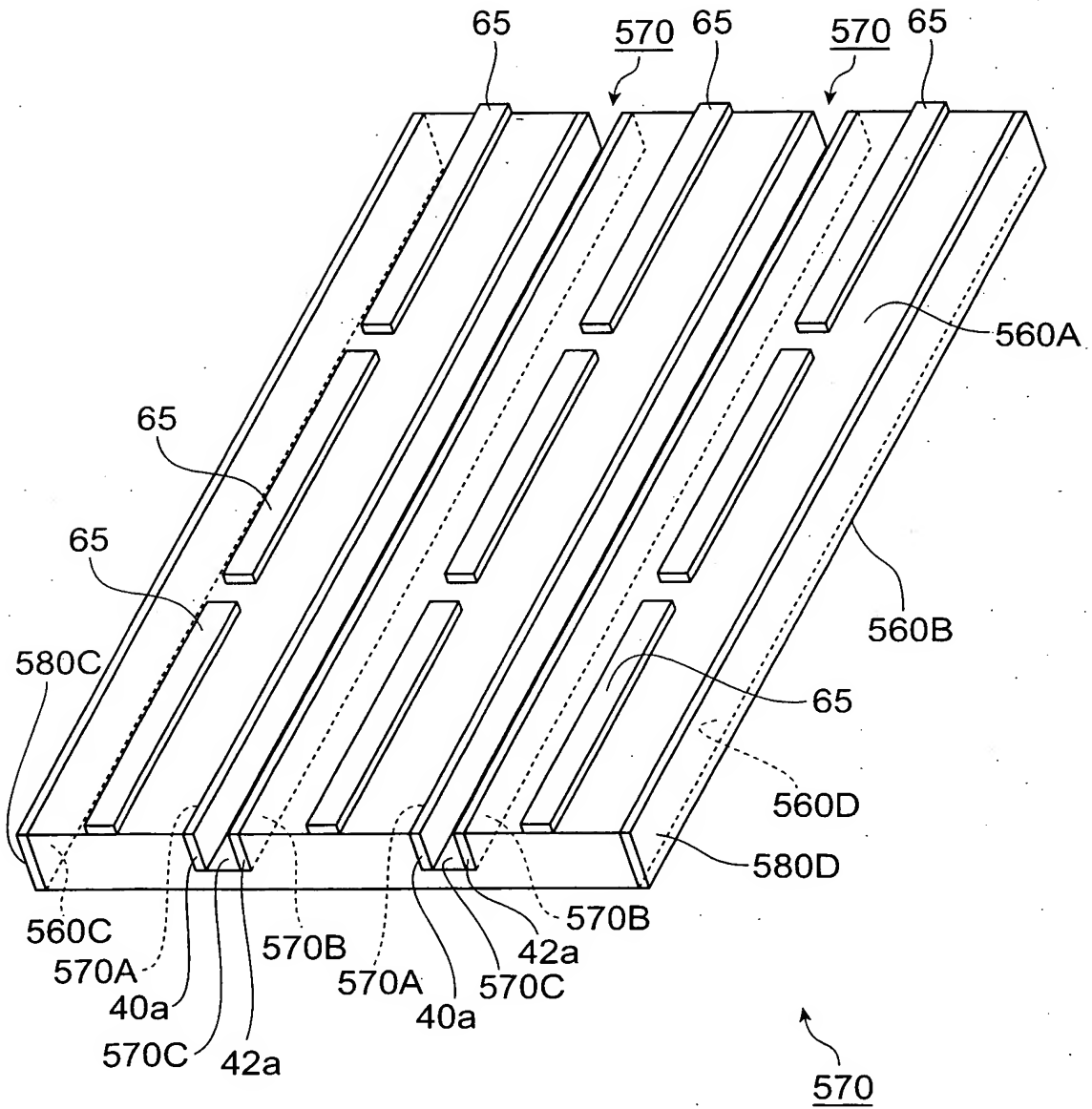


Fig.13

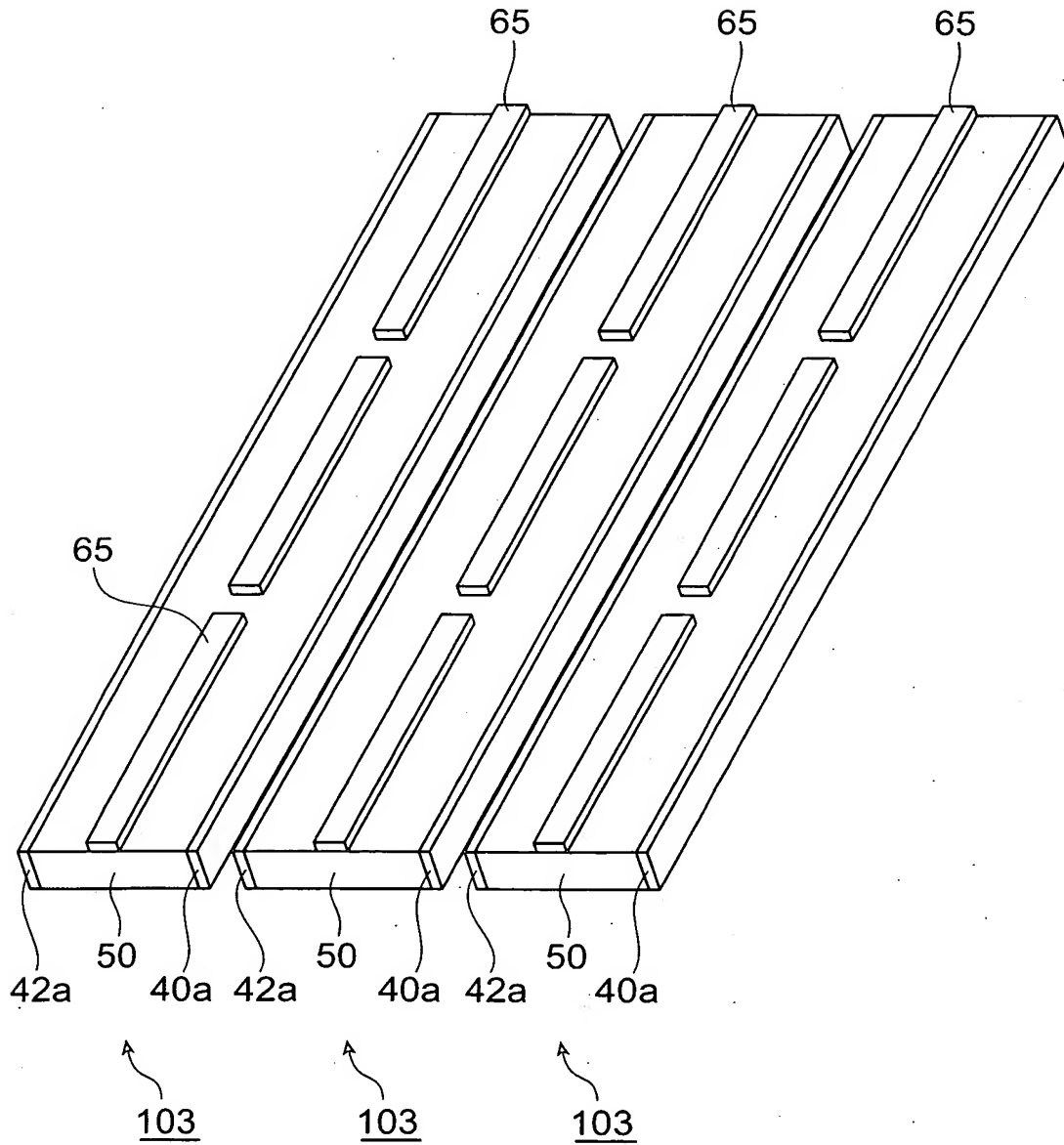


Fig. 14

	COMPOSITION (wt %)			COEFFICIENT OF THERMAL EXPANSION(CTE) (1/°C)	RESISTIVITY ($\Omega \cdot \text{cm}$)	3-POINT BENDING STRENGTH (MPa)
	MgO	TiO ₂	TiC	Al ₂ O ₃		
EXAMPLE 1	35.0	2.5	7.0	55.5	1.0×10^9	450
EXAMPLE 2	40.0	2.5	7.0	50.5	1.0×10^9	450
EXAMPLE 3	45.0	2.5	7.0	45.5	1.0×10^9	450
EXAMPLE 4	50.0	2.5	7.0	40.5	1.0×10^9	450
EXAMPLE 5	55.0	2.5	7.0	35.5	1.0×10^9	450
EXAMPLE 6	40.0	1.5	7.0	51.5	1.0×10^{12}	450
EXAMPLE 7	40.0	2.0	7.0	51.0	5.0×10^{10}	450
EXAMPLE 8	40.0	3.0	7.0	50.0	5.0×10^7	450
EXAMPLE 9	40.0	3.5	7.0	49.5	1.0×10^6	450
EXAMPLE 10	40.0	2.5	6.0	51.5	1.0×10^9	420
EXAMPLE 11	40.0	2.5	8.0	49.5	1.0×10^9	450
EXAMPLE 12	40.0	2.5	9.0	48.5	1.0×10^9	420
COMPARATIVE EXAMPLE 1	30.0	2.5	7.0	60.5	1.0×10^9	450
COMPARATIVE EXAMPLE 2	60.0	2.5	7.0	30.5	1.0×10^9	450

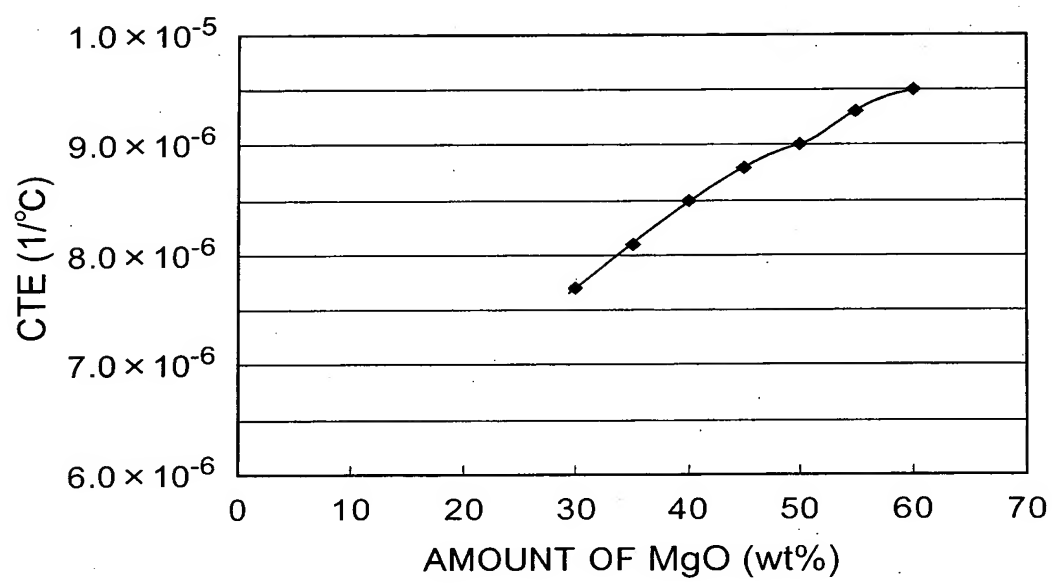
Fig.15

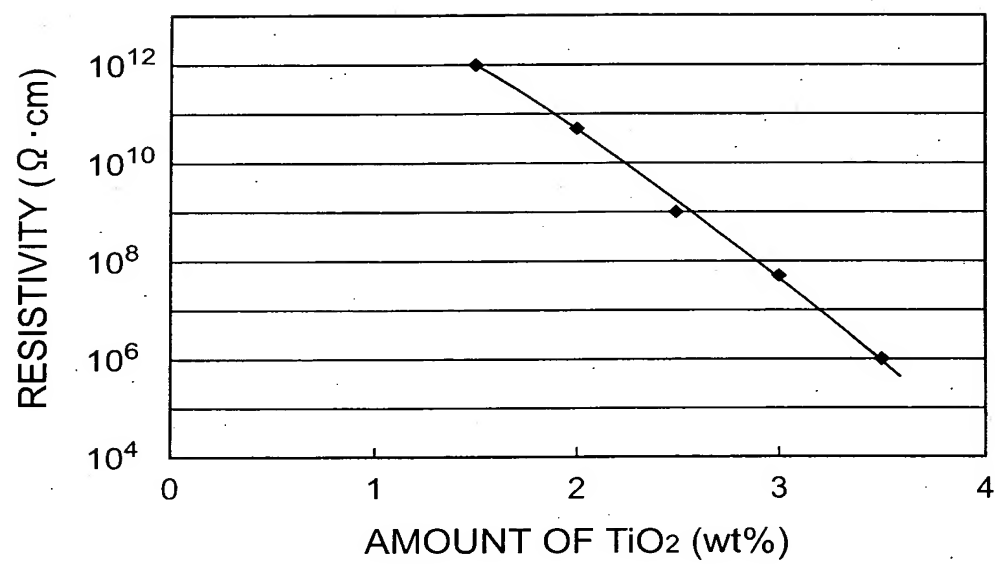
Fig.16

Fig.17